



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

GENERAL INDEX

Classified entries will be found under Contributors and Reviewers. New names and names of new genera, species, and varieties are printed in **bold face** type; synonyms in *italics*.

A

Aaronsohn, Aaron, sketch of 388
Absorption limits 486
Acacia 487
African plants 488
After-ripening and germination of rice 484
Alaria 151
Allen, E. R., work of 71, 72
Amaranthus, chemical constituents of 313
American plants, new tropical 487, 488
Amylase, secretion of by roots 460
Angiosperms, companion cells of 451; embryogeny in 486
Anthocyanin 484
Arber, E. A. N., work of 152
Arthur, J. C. 147
Aspergillus, zinc and growth of 391

B

Bambekea 232
Barley, relation of nutrient solution to cell sap 297
Basidiomycetes, life history and sexuality of 67
Bassler, H. 73
Belyea, H. C. 467
Bensaude, Mathilde, work of 67
Berry, E. W., work of 482
Black, O. F., work of 69
Blake, S. F., work of 488
Bog water, colloidal properties of 367
Bonazzi, A. 194
Bower, F. O., "Botany of the living plant" 478
Britton, N. L., work of 391
Brown, N. C., "Forest products" 479
Bryophytes, multiple eggs in 392
 Burger, O. F. 134
Butters, F. K., work of 149

C

Cactaceae 391; perennating fruit of 151
Cantheliophorales 84

Cantheliophorus 73; cultriformis 98; **ensifer** 99; **grandis** 98; linearifolius 97; **mirabilis** 101; **novaculatus** 99; **pugiatu**s 101; **riparius** 101; **robustus** 100; **sicatus** 100; **subulatus** 98; waldenbergenis 101
Carbohydrates of Amaranthus 329
Cell sap, relation of nutrient solution to 297
Clements, F. E., "Plant succession" 477
Coker, W. C., work of 72
Colletotrichum 244
Colloidal properties of bog water 367
Colorado, phytogeography of 153
Colorimeter and indicator method 232
Companion cells of Gnetum and angiosperms 451
Conductivity and wood structure 483
Congo, flora of 232
Coniothyrium 241
Contributors: Arthur, J. C. 147; Bassler, H. 73; Belyea H. C. 467; Bonazzi, A. 194; Burger, O. F. 134; Cook, M. T. 310; Coulter, J. M. 65, 72, 151, 152, 232, 311, 312, 388, 391, 486, 487, 488; Coulter, M. C. 63, 68, 79, 485; Cowles, H. C. 477; Cribbs, J. E. 262; Crocker, W. 72, 391, 479, 484; Dalby, Nora 54, 222; Dupler, A. W. 345; Fuller, G. D. 149, 479; Harshberger, J. W. 482; Hendricks, H. V. 425; Hill, J. B. 226; Hoagland, D. R. 297; Kempton, F. E. 233; Knudson, L. 460; Land, W. J. G. 392, 478; Langdon, LaDema M. 483; Levine, M. 67; Miller, W. L. 208; Mogensen, A. 393; Osterhout, W. J. V. 60; Ramaley, F. 380; Rigg, G. B. 367; Rose, D. H. 66; Schertz, F. M. 441; Shull, C. A. 70, 71, 232, 308, 310, 312, 392, 485, 486; Smith, R. S. 460; Stevens, F. L. 54, 222, 307, 474; Stout, A. B. 109; Thompson, T. G. 367; Thompson, W. P. 451; True, R. H. 390; Vestal, A. G. 153; Walker, Leva B. 1; Waterman, W. G. 22; Weatherwax, P. 305;

Weaver, J. E. 393; Weston, W. H. 287; Willaman, J. J. 69, 71, 232, 392;
Woo, M. L. 313
Cook, M. T. 310; "Applied economic botany" 307
Corn-pollinator 63
Coulter, J. M. 65, 72, 151, 152, 232, 311, 312, 388, 391, 486, 487, 488
Coulter, M. C. 63, 68, 70, 485
Cowles, H. C. 477
Cretaceous floras 481
Cribbs, J. E. 262
Crocker, W. 72, 308, 310, 391, 479, 484
Crop, influence on succeeding one 480
Cunninghamella, sexuality in 134
Cyathea, parasite of 222
Cycas media, polyxylic stem of 208

D

Dalby, Nora 54, 222
Damon, S. C., work of 480
Davisson, B. S., work of 72
Desmotascus portoricensis 476
Dictyuchus, zoospore emergence in 287
District of Columbia, flora of 487
Dodge, C. W., work of 232, 392
Dormancy, physiology of 307
Duggar, B. M., work of 232
Dupler, A. W. 345

E

East, E. M., work of 71
Ekmania 488
Embryo development in *Scrophularia* 441
Embryogeny of angiosperms 486
Epicoccum 249
Erythrina 487

F

Farmer, J. B., work of 483
Fernald, M. L., work of 149
Florin, R., work of 392
Flower, development in *Scrophularia* 441
Forest products 479
Free, E. E., work of 70
Fuller, G. D. 149, 479
Fungi, tyrosinase of 392

G

Germination of rice and after-ripening 484
Gleason, H. A., work of 488
Gloeosporium 244
Gnetum, companion cells of 451
Gold, absorption of 392
Grape growing, manual of American 390
Griffiths, D., work of 312
Griggisia cyathea 224

H

Harrington, G. T., work of 308, 310
Harshberger, J. W. 482
Hartwell, B. L., work of 480
Harvey, R. B., work of 486
Hedrick, U. P., "Manual of American grape growing" 390
Hendricks, H. V. 425
Hibiscadelphus 487
Hill, J. B. 226
Hitchcock, A. S., work of 487
Hoagland, D. R. 297
Hoffmannia 487
Hoita 65
Holmes, M. G., work of 483
Homalium 488
Huxley, L., "Life and letters of Sir Joseph Dalton Hooker" 65
Hybrid vigor 150
Hydnaceae of North Carolina 72

I

Infection as related to humidity and temperature 66
Intersexes in *Plantago lanceolata* 109

J

Java, Zingiberaceae of 152
Johnson, D. S., work of 151
Jones, D. F., work of 150
Jones, W. N., work of 68

K

Kelly, J. W., work of 69
Kempton, F. E. 233
Knudson, L. 460
Koidzumi, G., work of 487
Kokia 487
Kondo, M., work of 484
Küster, E., work of 484

L

Land, W. J. G. 392, 478
Langdon, LaDema M. 483
Lauritzen, J. T., work of 66
Lepidophyte, sporangiophoric 73
Leiphaimos 487
Levine, M. 67
Lycopodium reflexum, anatomy of 226

M

Macbride, J. F., work of 488
Macrophoma 238
Martin, J. N., "Botany for agricultural students" 308

Merkle, G. E., work of 480

Mezoneurum 487

Miller, W. L. 208

Mogensen, A. 393

Molisch, H., work of 72

Moore, S. L., work of 488

N

New names 488

Nitrification 194

Nitrite ferment 194

Nitrogen, compounds of Amaranthus 318; fixation 71

Nomenclature, errors in double 147

North American flora 65

North Carolina, Hydnaceae of 72

O

Opuntia 312

Orbexilum 65

Oriental plants 487

Osterhout, W. J. V. 60

Oxalates, distribution of dissolved 72

P

Paraffin solvents 305

Park, J. B., work of 71

Patellina 247

Pediomelum 65

Pember, F. R., work of 480

Perithecia with interascicular pseudoparenchyma 474

Permeability 70, 232

Pestalozzia 245

Philippine plant diseases 310

Phoma 236

Photometry 71

Photosynthesis, apparatus for study of 60

Phyllachora, andropogonis 54; *banisteriae* 54; *bourrerieae* 54; *canafistulæ* 55; *dryptocila* 55; *engleri* 55; *gnipæ* 55; *graminis* 56; *heterotrichæ* 56; *lathyri* 56; *mayepeæ* 56; *metastelmae* 57; *nectandrae* 57; *ocoteicola* 57; *rourea* 58; *securidacæ* 58; *simplex* 58; *tragiae* 58

Phytogeography of Colorado 153

Pinus Banksiana, distribution of 149

Plantago lanceolata, intersexes in 109

Pluteus admirabilis, development of 1

Porto Rico, Phyllachoras from 54

Practical botany 307

Psoralidium 65

Psorobatus 65

Psorodendron 65

Psorothamnus 65

Pycnidium, origin and development of 233

Pynaertiodendron 232

Pyrus 487

R

Ramaley, F. 380

Record, S. J., "Economic woods" 480

Reinking, O. A., work of 310

Renner, O., work of 72

Respiration, apparatus for study of 60

Reviews: Bower's "Botany of the living plant" 478; Brown's "Forest products" 479; Clements' "Plant succession" 477; Cook's "Applied economic botany" 307; Hedrick's "Manual of American grape growing" 390; Huxley's "Life and letters of Sir Joseph Hooker" 65; Martin's "Botany for agricultural students" 308; Record's "Economic woods" 480

Rhytidomene 65

Ridgway, C. S., work of 71

Rigg, G. B. 367

Rock, J. F., work of 487

Root nodules 311

Rose, D. H. 66

Rose, J. N., work of 391

Rosendahl, C. O., work of 149

Root systems, development of 22

S

Sacramento plains, vegetation of 380

Schaffner, J. H., work of 485

Schertz, F. M. 411

Scrophularia, development of flower and embryo 441

Self-sterility 70

Septoria 242

Sequoia, ray tracheid structures 467

Sex, new conception of 68; quantitative nature of 485

Sexuality in Cunninghamella 134

Shull, C. A. 70, 71, 232, 308, 310, 312, 392, 485, 486

Shull, G. H., work of 150

Smith, R. S. 460

Soil fertility 312

Sophora 487

Souëges, R., work of 486

Sphaeronaema 239

Sphaeronaemella 243

Sphaeropsis 240

Spinach, mineral absorption in 69

Spratt, Ethel R., work of 311

Stamine strobilus of *Taxus canadensis* 345

Standley, P. C., work of 487

Steinberg, R. A., work of 391

Stevens, F. L. 54, 222, 307, 474

Stone, H., work of 310
 Stout, A. B. 109; work of 485
 Succession 477
 Suspensor of *Trapa* 312

T

Tacinga 391
 Tansley, A. G., work of 478
Taxus canadensis, staminate strobilus of 345
 Thoday, D., work of 72
 Thompson, T. G. 367
 Thompson, W. P. 451
Thuja occidentalis, distribution of 149
Tilia americana, ecology of 262
 Timber curing 310
 Tison, M. A., work of 312
 Torsion studies in twining plants 425
 Transpiration, in *Tilia* 262; of coniferous and broad-leaved trees 393
Trapa, suspensor of 312
 True, R. H. 390; work of 69, 486
Tubaria furfuracea, development of 1
 Turgor and osmotic pressure 72
 Twining plants, torsion studies in 425
 Tyrosinase of fungi 392

Valeton, Th., work of 152
 Van Alstine, E., work of 312
Vernonia, new species of 488
 Vestal, A. G. 153
Volutella 248

W

Walker, Leva B. 1
 Waterman, W. G. 22
 Water movements in plants 72
 Weatherwax, P. 305
 Weaver, J. E. 393
 Weston, W. H. 287
 Wildeman, E., work of 232
 Willaman, J. J. 69, 71, 232, 392
 Williams, Maud, work of 232
Williamsonia, cones of 152
 Wood structure and conductivity 483
 Woo, M. L. 313

Y

Yendo, K., work of 151

Z

Zingiberaceae of Java 152
 Zoospores, in *Dictyuchus* 287